

MM 30

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Time 50 min

1. Write $\frac{1}{17}$ in decimal form. 2
2. Rationalise the denominator $\frac{5\sqrt{2} + 2\sqrt{5}}{5\sqrt{2} - 2\sqrt{5}}$ 2
3. Represent $1.\overline{23}$ on number line by successive magnification 3
4. Represent $\sqrt{2.8}$ on number line. 3
5. Factorise using factor theorem $x^3 + 5x^2 - 100x + 500$ 3
6. Factorise $(a - b)^3 + (b - c)^3 + (c - a)^3$ 2
7. The taxi fare is as follows: For the first 5 km the fare is Rs 10 per Km and after that Rs 8 per Km. Taking distance covered as $x + 2$ km and total fare as Rs $y - 6$, write a linear equation and draw its graph 5
8. Solve the equation $3x + 1 = x + 1$ and represent the solution on (1) number line (2) the Cartesian plane 5

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